

## GENERALIZED LENSING ANGULAR SIMILARITY OPERATOR

### ABSTRACT OF THE DISCLOSURE

In a machine for monitoring an instrumented process or for analyzing one  
5 or more signals, an empirical modeling module for modeling non-linearly and  
linearly correlated signal inputs using a non-linear angular similarity function  
with variable sensitivity across the range of a signal input. A different angle-  
based similarity function can be chosen for different inputs for improved  
sensitivity particular to the behavior of that input. Sections of interest within a  
10 range of a signal input can be lensed for particular sensitivity.